

# quiz Review Key

## Lesson 4-1

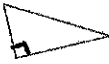
(pages 17)

classify each triangle as acute, equiangular, obtuse, or right.

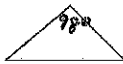
1.



2.



3.



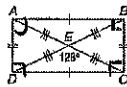
Identify the indicated type of triangles in the figure if  $\overline{AB} \cong \overline{CD}$ ,  $\overline{AD} \cong \overline{BC}$ ,  $\overline{AE} \cong \overline{BE}$ ,  $\overline{EC} \cong \overline{ED}$ , and  $m\angle BAD = m\angle ABC = m\angle BCD = m\angle ADC = 90^\circ$ .

4. right

5. obtuse

6. acute

7. isosceles



## Lesson 4-2

Find the measure of each angle.

1.  $\angle 1$

2.  $\angle 2$

3.  $\angle 3$

4.  $\angle 4$

5.  $\angle 5$

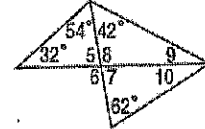
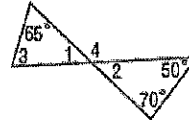
6.  $\angle 6$

7.  $\angle 7$

8.  $\angle 8$

9.  $\angle 9$

10.  $\angle 10$



1. equiangular

2. right

3. obtuse

4.  $\triangle ABC$   $\triangle ABD$   $\triangle BCD$   $\triangle ADC$

5.  $\triangle ABE$   $\triangle CDE$

6.  $\triangle AED$   $\triangle BEC$

7.  $\triangle ABE$   $\triangle CDE$   $\triangle AED$   $\triangle BEC$

$$1. \begin{array}{r} 180 \\ -120 \\ \hline 60 \end{array}$$

$$2. 60$$

$$3. \begin{array}{r} 120 - 65 \\ \hline 55 \end{array}$$

$$4. \begin{array}{r} 50 \\ +70 \\ \hline 120 \end{array}$$

$$5. \begin{array}{r} 180 \\ -96 \\ \hline 84 \end{array}$$

$$6. \begin{array}{r} 86 \\ +32 \\ \hline 118 \end{array}$$

$$7. 94$$

$$8. \begin{array}{r} 86 \\ +94 \\ \hline 180 \end{array}$$

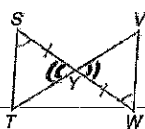
$$9. 52$$

$$10. \begin{array}{r} 86 \\ -62 \\ \hline 24 \end{array}$$

2. Given:  $\angle S \cong \angle W$

$\overline{SY} \cong \overline{YW}$

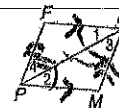
Prove:  $\overline{ST} \cong \overline{WV}$



S	R
① $\sim$	① Given
② $\angle SYT \cong \angle WYV$	② Vert. $\angle$ s $\cong$
③ $\triangle SYT \cong \triangle WVY$	③ ASA
④ $\overline{ST} \cong \overline{WV}$	④ CPCTC

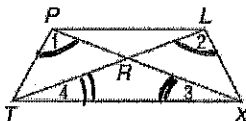
4. Given:  $\overline{FP} \parallel \overline{ML}$ ,  $\overline{FL} \parallel \overline{MP}$

Prove:  $\overline{MP} \cong \overline{FL}$



3. Given:  $\angle 1 \cong \angle 2$ ,  $\angle 3 \cong \angle 4$

Prove:  $\overline{PT} \cong \overline{LX}$



S	R
① $\sim$	① Given
② $\overline{TH} \cong \overline{TH}$	② Refl
③ $\triangle PTH \cong \triangle LXH$	③ AAS
④ $\overline{PT} \cong \overline{LX}$	④ CPCTC

S	R
① $\sim$	① Given
② $\angle 1 \cong \angle 2$	② $\parallel$ alt $\angle$ s $\cong$
$\angle 4 \cong \angle 3$	③ Refl
③ $\overline{FL} \cong \overline{FL}$	④ ASA
④ $\triangle FLP \cong \triangle MPL$	⑤ CPCTC
⑤ $\overline{MP} \cong \overline{FL}$	